

4.2.B. 0602000107.

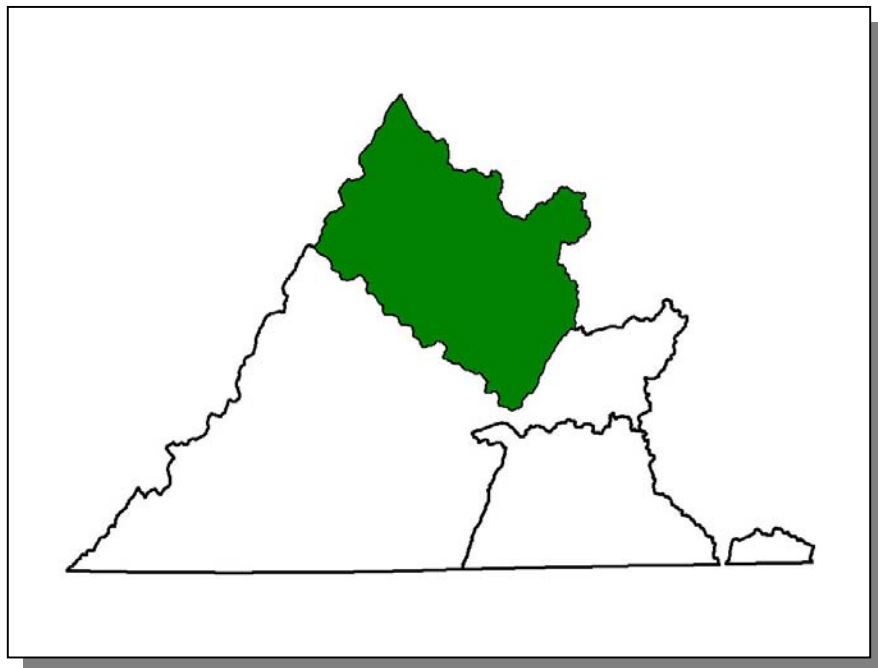


Figure 4-69. Location of Subwatershed 0602000107. All Group 4 Lower Tennessee River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.2.B.i. 060200010701 (Upper North Chickamauga Creek).

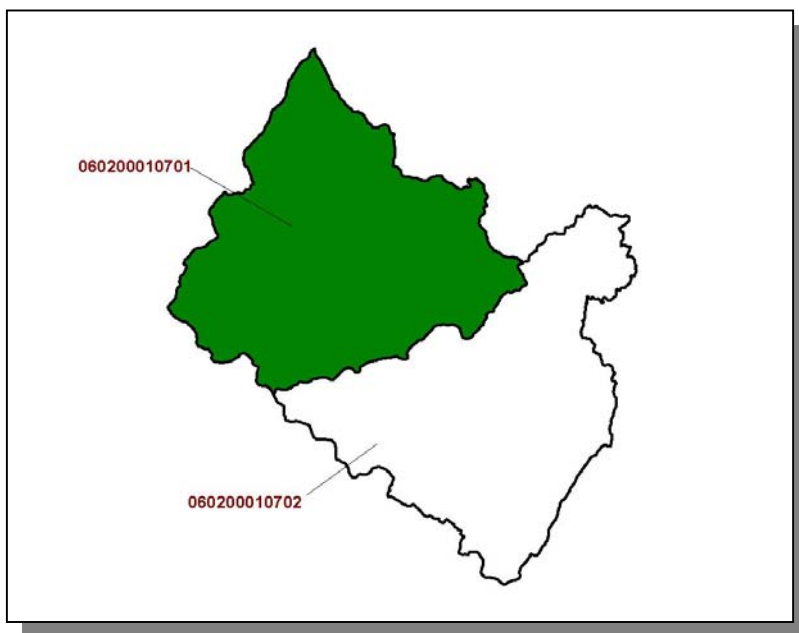


Figure 4-70. Location of Subwatershed 060200010701. All Group 4 Lower Tennessee River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

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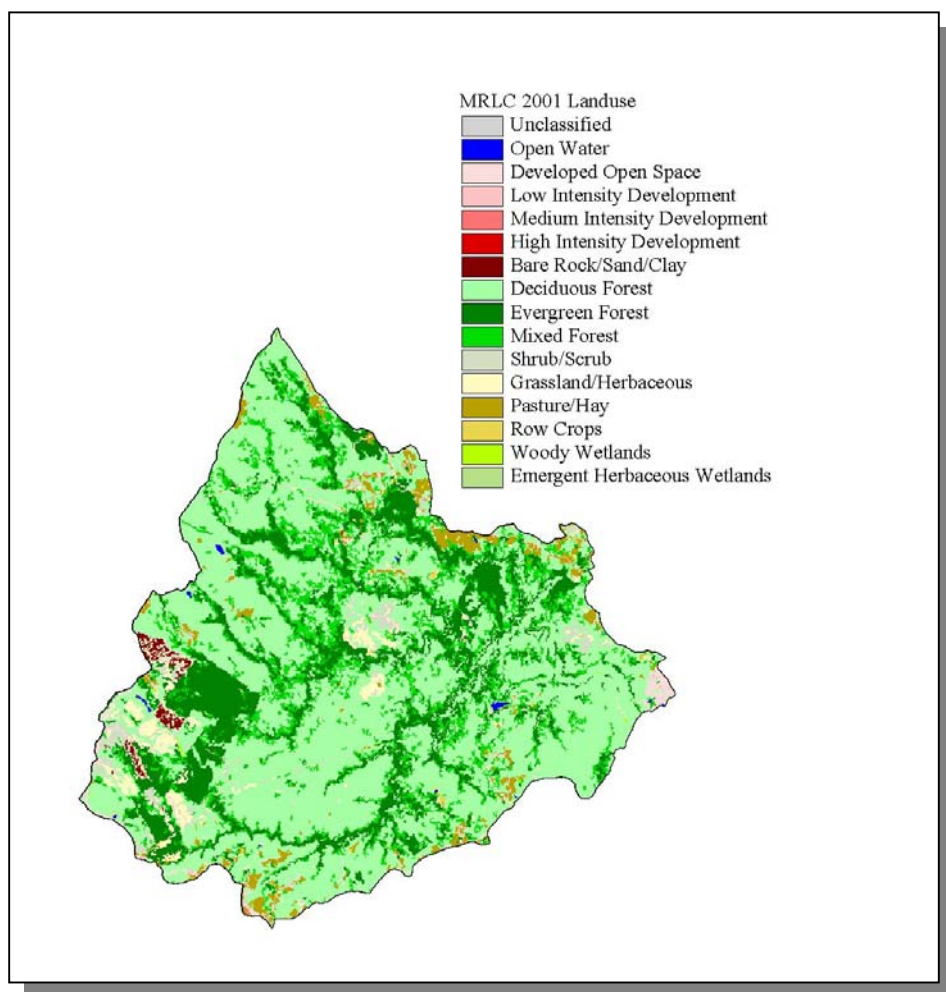


Figure 4-71. Illustration of Land Use Distribution in Subwatershed 060200010701.

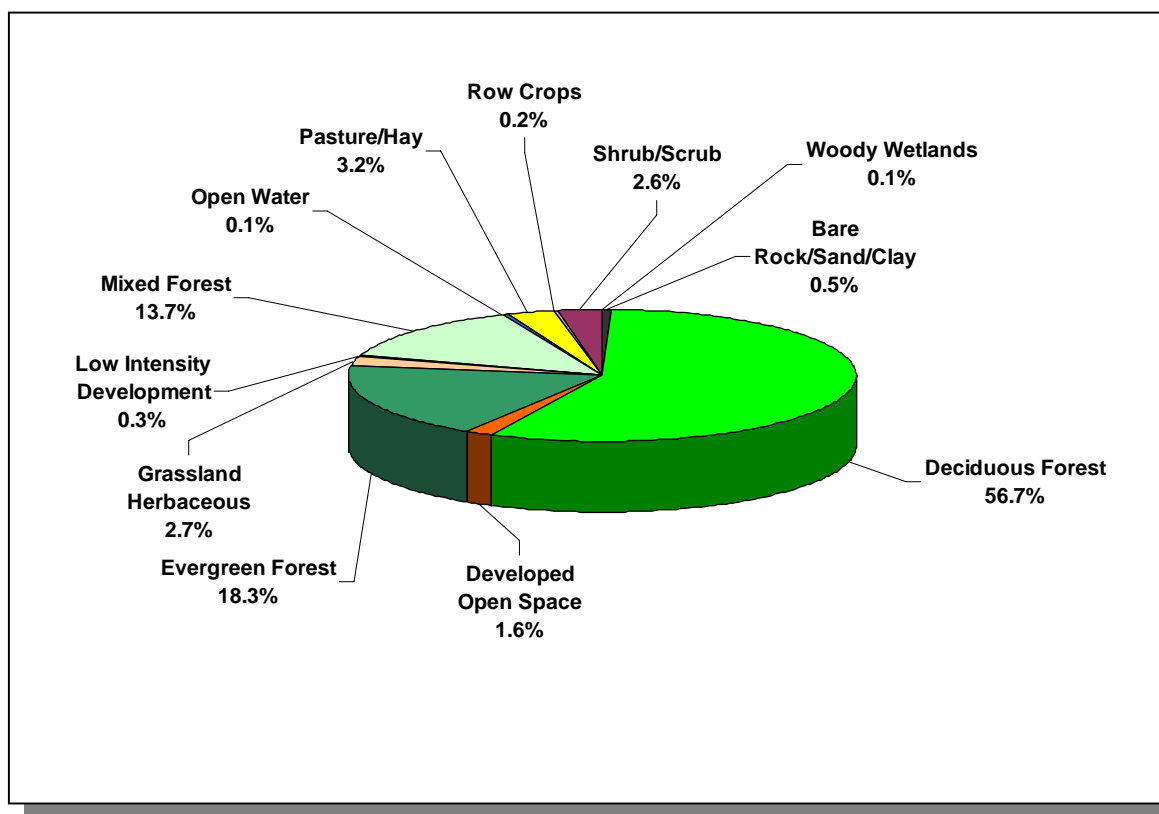


Figure 4-72. Land Use Distribution in Subwatershed 060200010701. More information is provided in Appendix IV.

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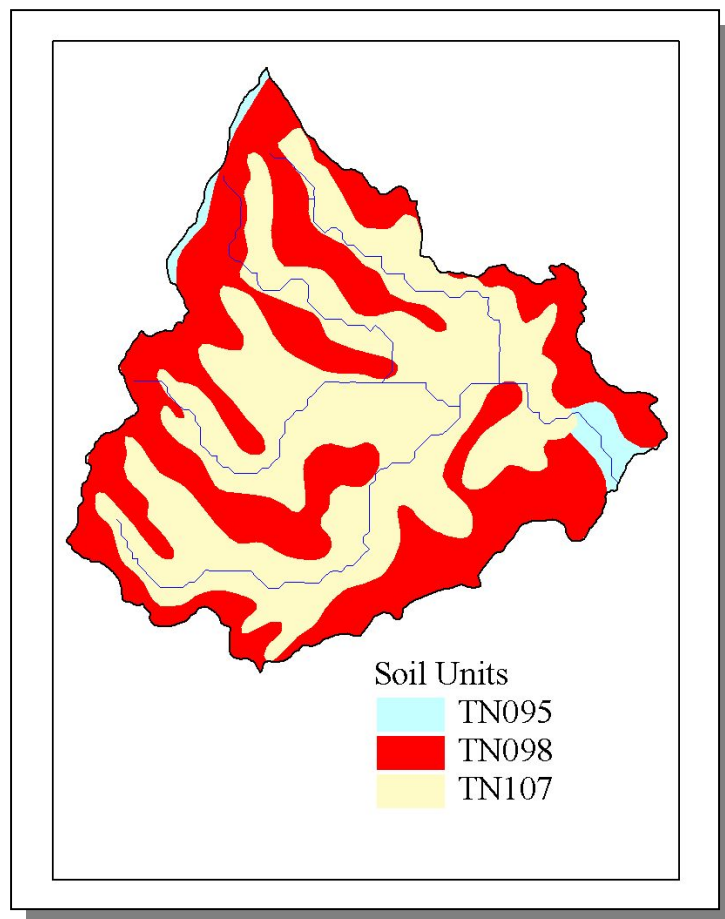


Figure 4-73. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060200010701.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28

Table 4-61. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060200010701. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Hamilton	285,536	294,865	307,896	4.00	11,424	11,797	12,318	7.8
Marion	24,860	26,674	27,776	0.07	17	18	19	11.8
Sequatchie	8,863	10,119	11,370	14.22	1,261	1,439	1,617	28.2
Total	319,259	331,658	347,042		12,702	13,254	13,954	9.9

Table 4-62. Population Estimates in Subwatershed 060200010701.

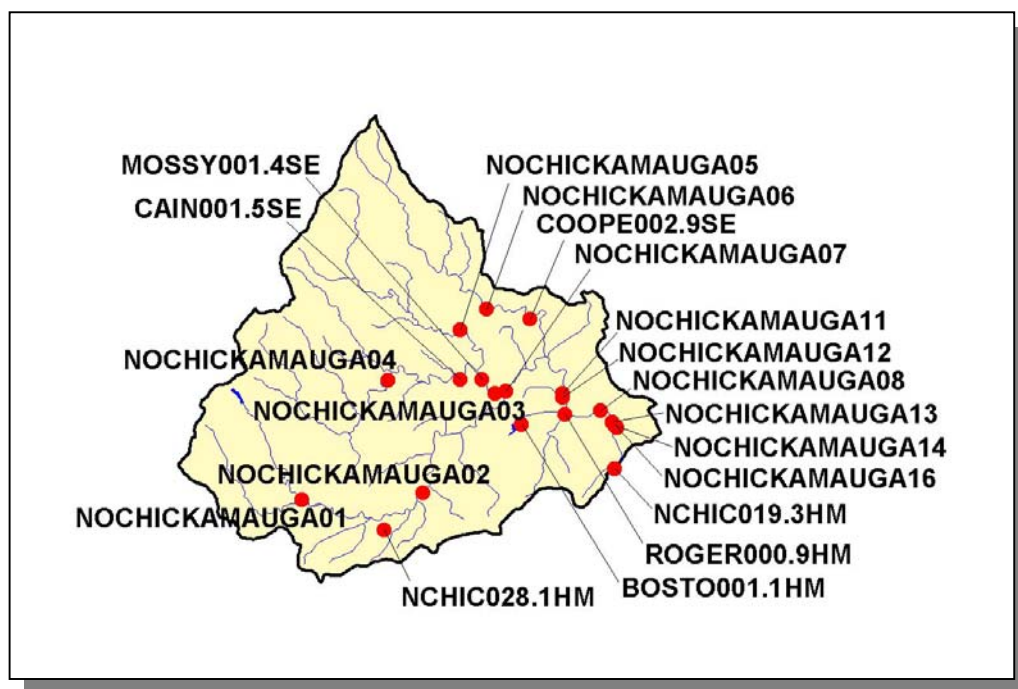


Figure 4-74. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060200010701. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

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4.2.B.i.a. Point Source Contributions.

There are no point sources in this subwatershed.

4.2.B.i.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Hogs	Sheep
138	322	13	38,018	7	<5

Table 4-63. Summary of Livestock Count Estimates in Subwatershed 060200010701. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Hamilton	6,913	14,734	801	30	934,564	1,017	109
Marion	4,424	8,939	311	246	3,782,097	279	0
Sequatchie	2,763	6,739	221	6	960,000	0	221

Table 4-64. Summary of Livestock Count Estimates in Hamilton, Marion, and Sequatchie Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Hamilton	210.7	210.7	2.2	6.0
Marion				
Sequatchie				

Table 4-65. Forest Acreage and Annual Removal Rates (1987-1994) in Hamilton, Marion, and Sequatchie Counties.

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CROPS	TONS/ACRE/YEAR
Legumes (Pastureland)	0.07
Grass (Pastureland)	0.80
Grass (Hayland)	1.19
Legumes, Grass (Hayland)	0.21
Grass, Forbs, Legumes (Mixed Pasture)	0.80
Corn (Row Crops)	3.56
Soybeans (Row Crops)	4.56
Oats (Close Grown Cropland)	3.13
Wheat (Close-Grown Cropland)	3.14
All Other Close-Grown Cropland	1.99
Other (Horticultural)	0.29
Other Vegetable and Truck Crops	7.28
Farmsteads and Ranch Headquarters	0.11

Table 4-66. Annual Estimated Total Soil Loss in Subwatershed 060200010701.

4.2.B.ii. 060200010702 (Lower North Chickamauga Creek).

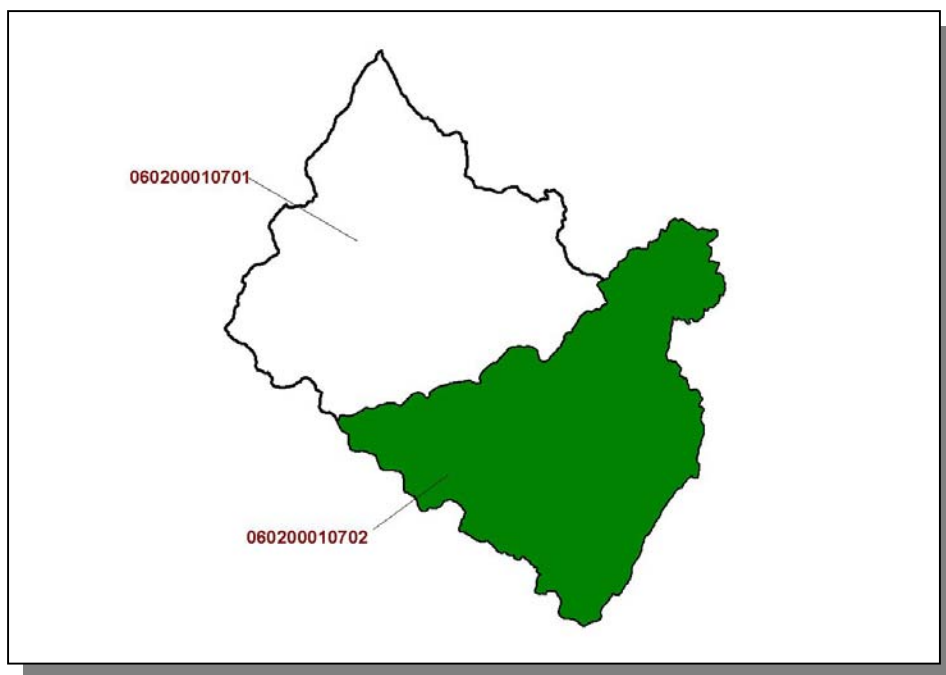


Figure 4-75. Location of Subwatershed 060200010702. All Group 4 Lower Tennessee River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

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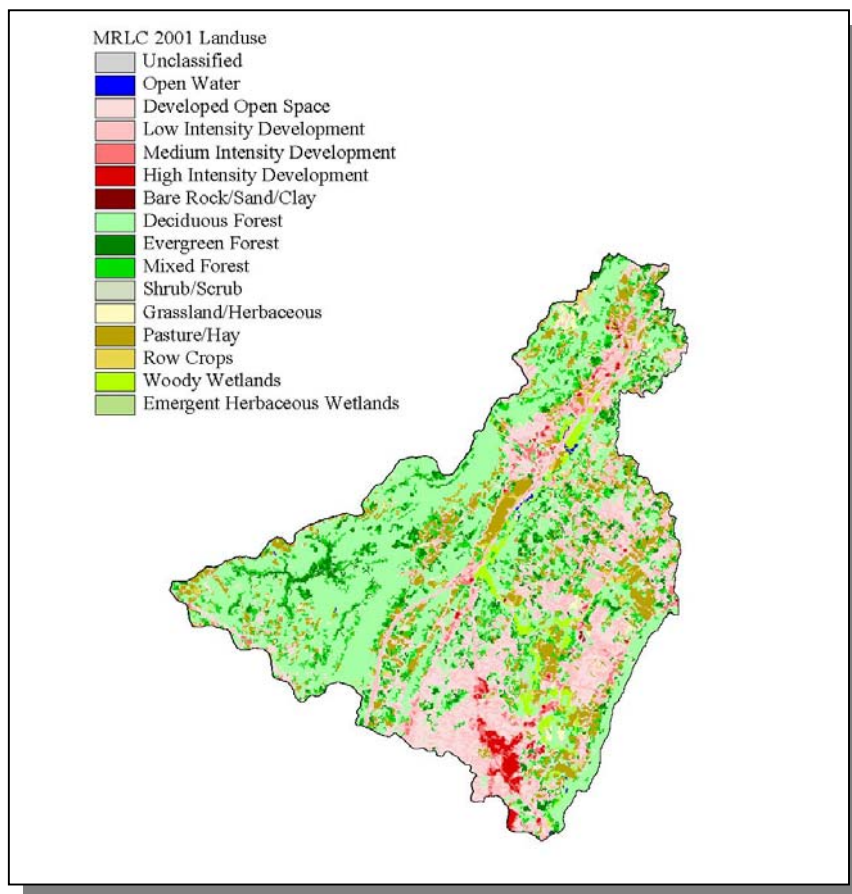


Figure 4-76. Illustration of Land Use Distribution in Subwatershed 060200010702.

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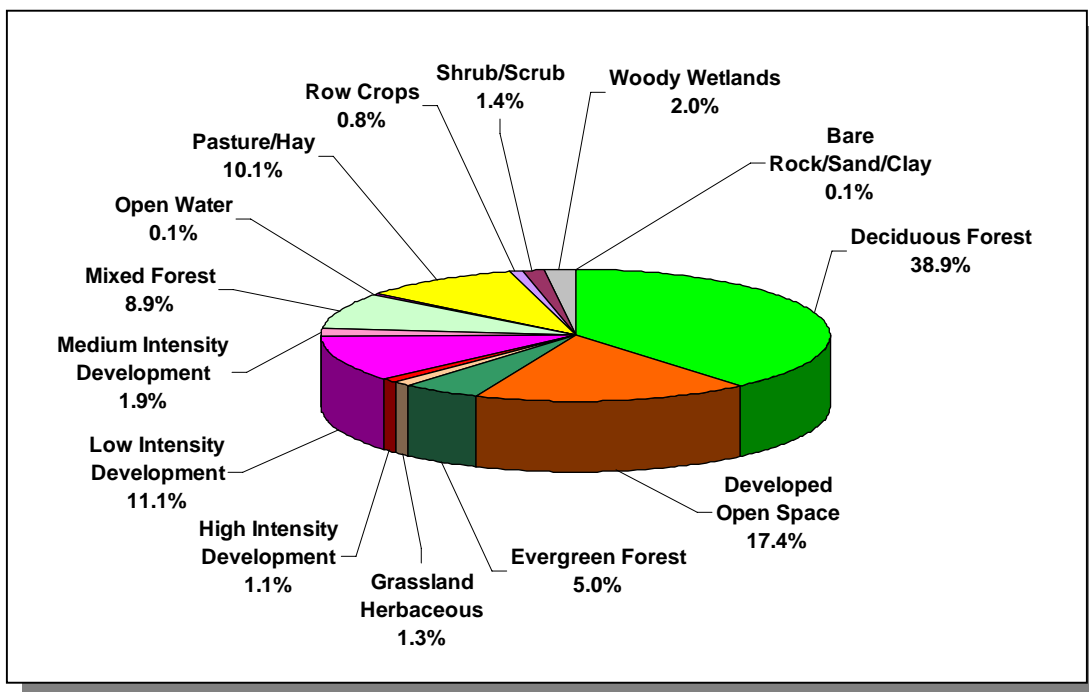


Figure 4-77. Land Use Distribution in Subwatershed 060200010702. More information is provided in Appendix IV.

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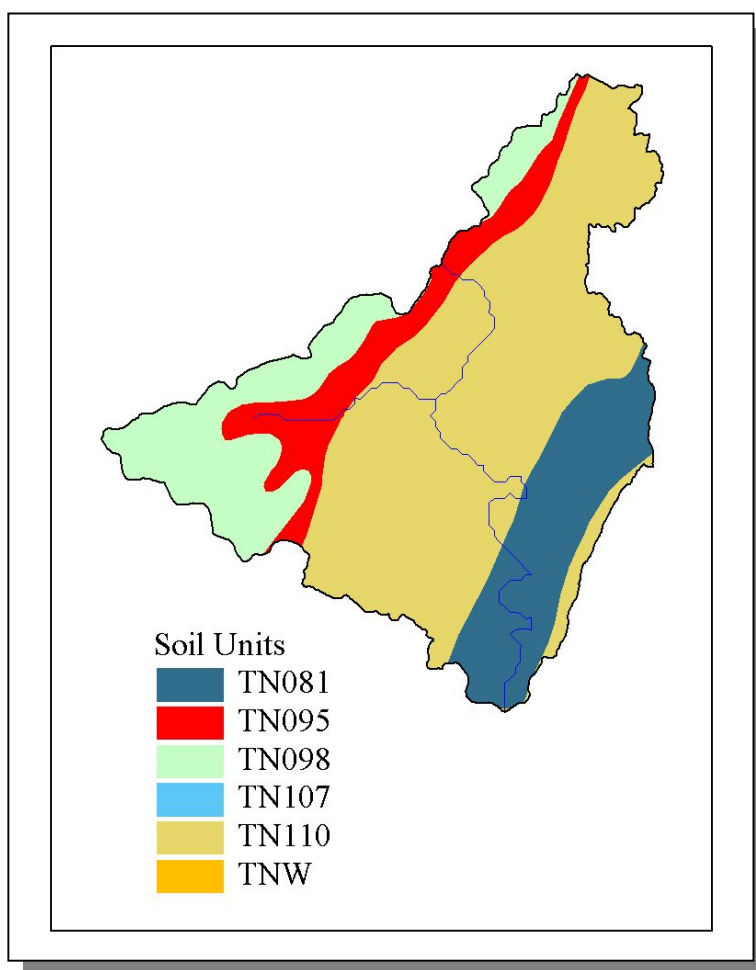


Figure 4-78. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060200010702.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN081	5.00	C	1.41	5.48	Silty Loam	0.35
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN110	0.00	B	2.22	4.96	Loam	0.31

Table 4-67. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060200010702. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Hamilton	285,536	294,865	307,896	9.81	28,003	28,918	30,196	7.8

Table 4-68. Population Estimates in Subwatershed 060200010702.

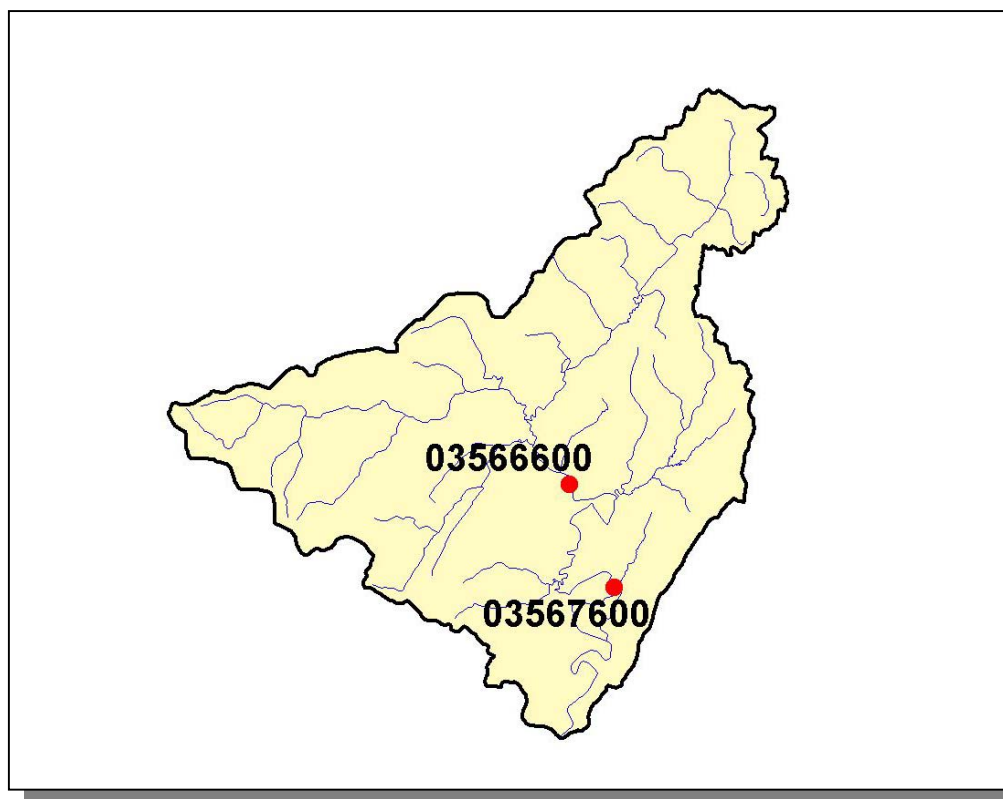


Figure 4-79. Location of Historical Streamflow Data Collection Sites in Subwatershed 060200010702. More information is provided in Appendix IV.

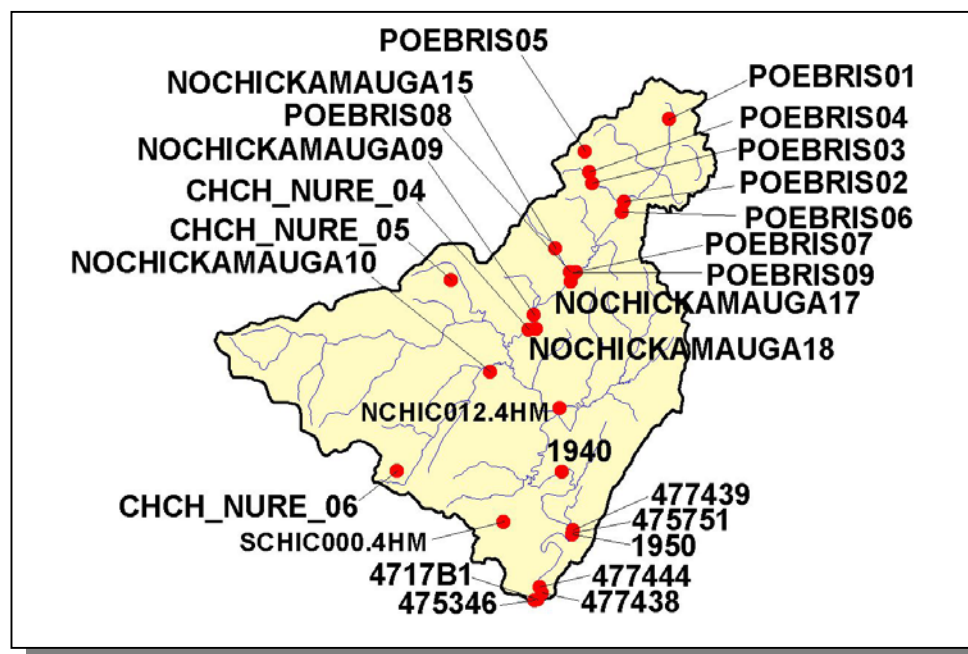


Figure 4-80. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060200010702. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.B.ii.a. Point Source Contributions.

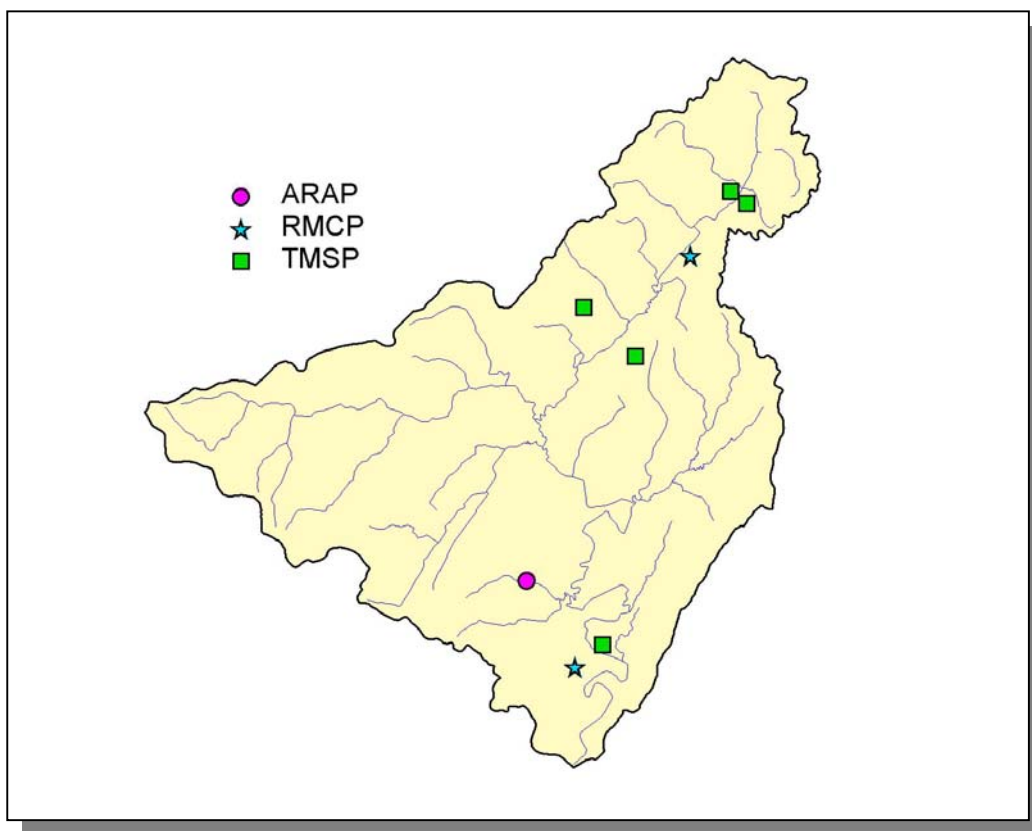


Figure 4-81. Location of Permits Issued in Subwatershed 060200010702. More information, including the names of facilities, is provided in Appendix IV.

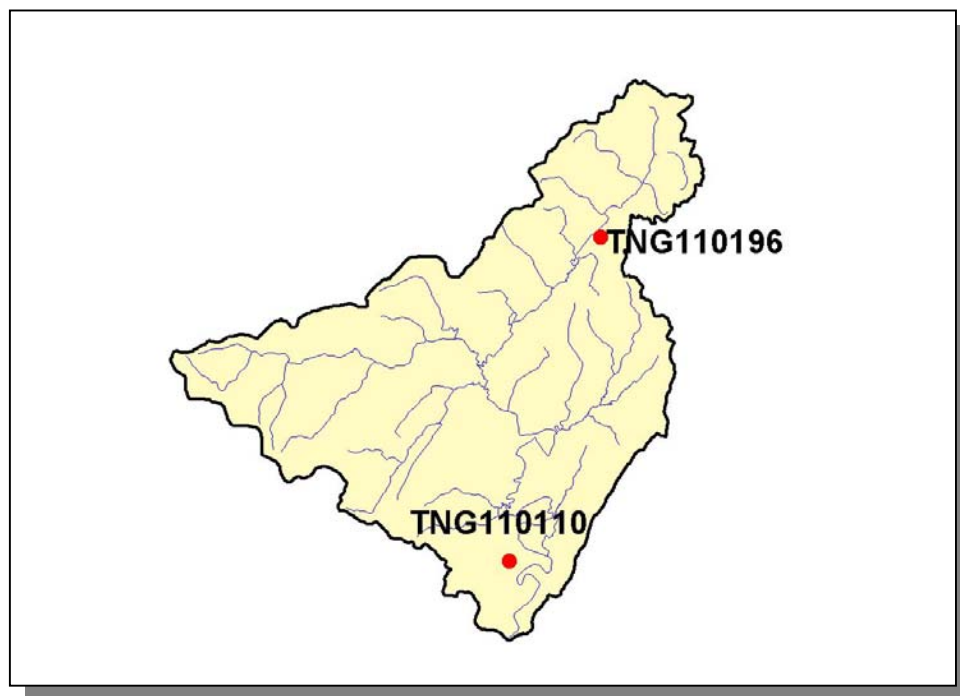


Figure 4-82. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 060200010702. More information is provided in Appendix IV.



Figure 4-83. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 060200010702. More information is provided in Appendix IV.

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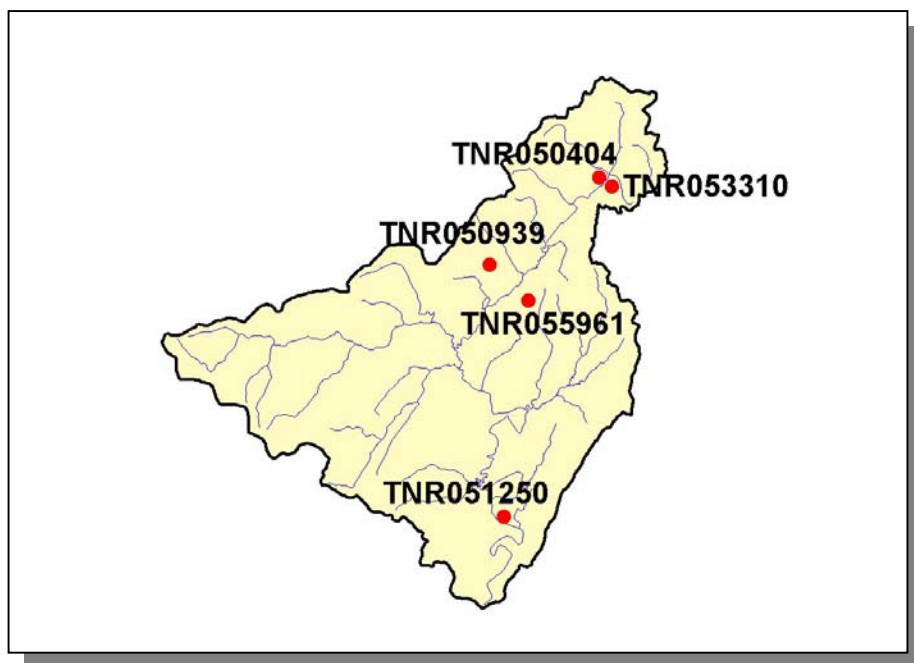


Figure 4-84. Location of TMSP Sites in Subwatershed 060200010702. More information, including the names of facilities, is provided in Appendix IV.

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4.2.B.ii.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
576	1,227	67	<5	77,850	85	9

Table 4-69. Summary of Livestock Count Estimates in Subwatershed 060200010702. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Hamilton	6,913	14,734	801	30	934,564	1,017	109

Table 4-70. Summary of Livestock Count Estimates in Hamilton County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Hamilton	210.7	210.7	2.2	6.0

Table 4-71. Forest Acreage and Annual Removal Rates (1987-1994) in Hamilton County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.34
Grass (Hayland)	2.33
Legumes, Grass (Hayland)	0.20
Legumes (Pastureland)	0.07
Grass, Forbs, Legumes (Mixed Pasture)	0.27
Corn (Row Crops)	5.28
Oats (Close-Grown Cropland)	3.13
Wheat (Close-Grown Cropland)	3.14
All Other Close-Grown Cropland	1.99
Farmsteads and Ranch Headquarters	0.10

Table 4-72. Annual Estimated Total Soil Loss in Subwatershed 060200010702.